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Coming Next Month:

When & How To Retrofit

The Institute of Industrial Engineers announces the

10th Annual Conference on Computers and Industrial Engineering

March 23-25, 1988
Held at **INFOMART®** in
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This conference, now in its tenth year, is devoted to the theme of how industrial engineers use computers. The intent is to provide an opportunity for practitioners and theorists from business, government, and academia to share, in an informal environment, their work and solutions to industrial engineering problems.

This program will be held within Dallas' INFOMART®, an educational and marketing center featuring permanent product demonstration centers from more than 80 computer hardware, software, telecommunications, and consulting companies. Time will be alloted in the conference agenda for presentations by many of the companies housed within the facility.

For more information regarding this course, contact the Institute Registrar at **(404) 449-0460.**

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THE 10 MINUTE CHALLENGE!

MIC–SIM™ challenges your present simulation language (micro, mini, or mainframe) to model the following situation in less than 10 minutes*:

MODEL DESCRIPTION:

An assembly operation requires 1 unit of A and 2 units of B before a worker can assemble them. Storage exists for 5 units of A and 10 units of B. Part A arrives every 3 minutes and B arrives every 1.6 minutes. The assembly operation takes 2.6 minutes on average (normal distribution with variance of 1 minute). Arriving units continue on if no storage space is available (ie. balking). A worker earns $0.60 per completed assembly and the assembly operation costs $0.25 per 10 minutes of actual assembly time. Assume 3 units of A and 4 units of B are on hand when the operation starts. Simulate 100 completed assemblies.

STATISTICAL RESULTS FOR:

__ time to assemble
__ time between assemblies
__ cost for an assembly by:
__total __worker __operation
__ service and idle time
__ service and idle occurences
__ number of units in storage
__ number of units that balk

YOUR ALTERNATIVES:

1. You can "unleash the power", "reach beyond the limits", call the caped crusaders, consult with someone who has "heavenly" connections, etc. Just do not forget to keep track of the time it takes to develop, input, and execute your model. Debugging and obtaining the above results also counts.

2. Order your copy of MIC-SIM. You will probably receive MIC-SIM and simulate the above model in the time it will take you to do it with your current "language". From that point on think of the time you will be able to save and the number of other situations you can model -- current users certainly enjoy these and other benefits from using MIC-SIM.

* We took 9 minutes and 21 seconds -- from starting to draw a diagram until the model and results (12 pages) were printed.

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